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الأخطار البيئية وسكان السودان

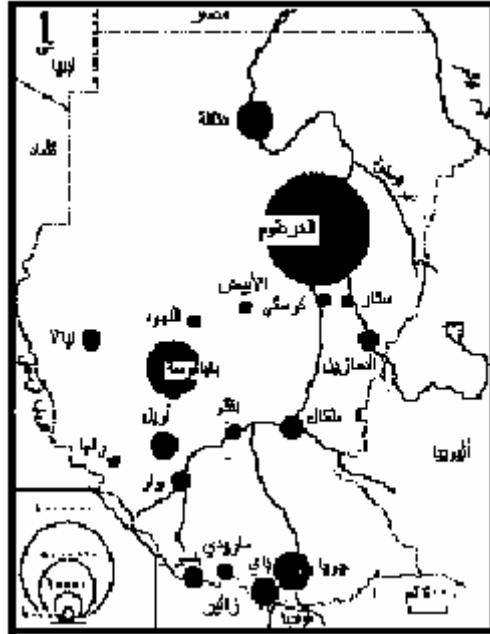


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د. أحمد محمد عبد الغال



د. أحمد محمد عبد العال



الأخطار البيئية وسكان السودان

طبقا لقوانين الملكية الفكرية

جميع حقوق النشر و التوزيع الالكتروني
لهذا المصنف محفوظة لكتب عربية. يحظر
نقل أو إعادة نسخ أو إعادة بيع أى جزء من
هذا المصنف و بثه الكترونيا (عبر الانترنت أو
للمكتبات الالكترونية أو الأقراص المدمجة أو أى
وسيلة أخرى) دون الحصول على إذن كتابي من
كتب عربية. حقوق الطبع الورقى محفوظة
للمؤلف أو ناشره طبقا للاتفاقيات السارية.



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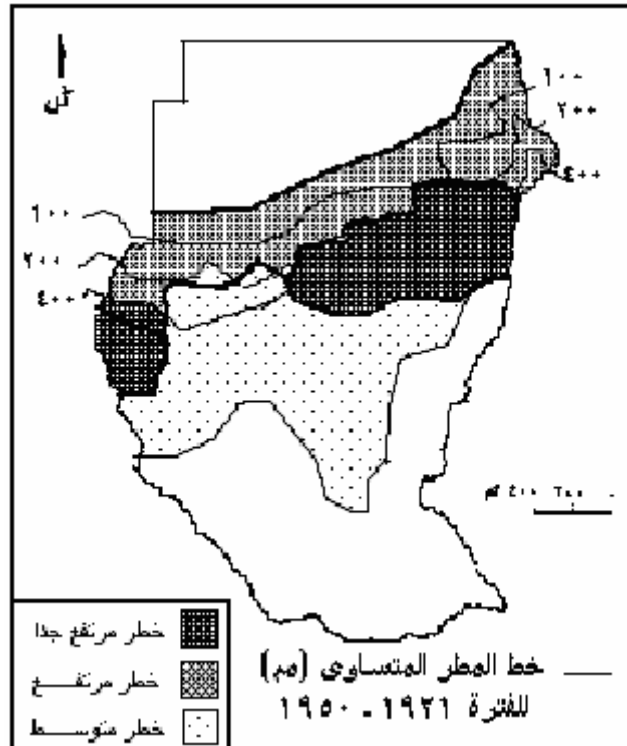
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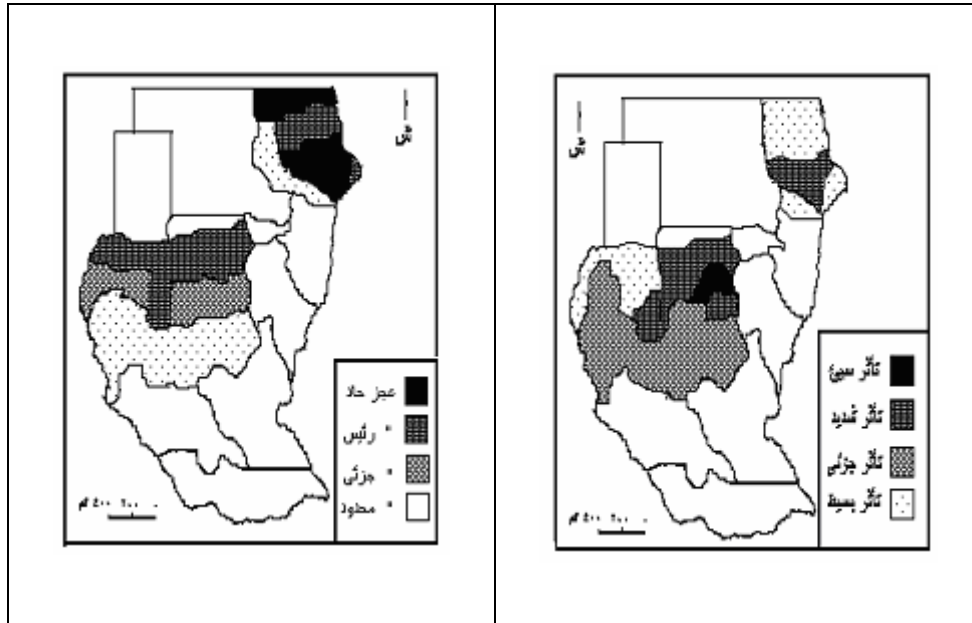
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Davis , H. , After The Famine of The Sudan , Can The Australian Experience Help?, The Geographical Journal ,vol. 153 ,no. 2 , July 1987 , p. 183 .

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starvation



Abusin, M., E., Forms And Types of Disasters and Hazards in The Sudan,
In: Abusin, M., E., Disaster Prevention and Management in Sudan, Khartoum
University Press, 1991, p. 30 \ 43.

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Davies, H., R., After the Famine in the Sudan, Can the Australian Experience Help? , Geographical Journal, Vol. 153, No. 2, July 1987, p. 182.

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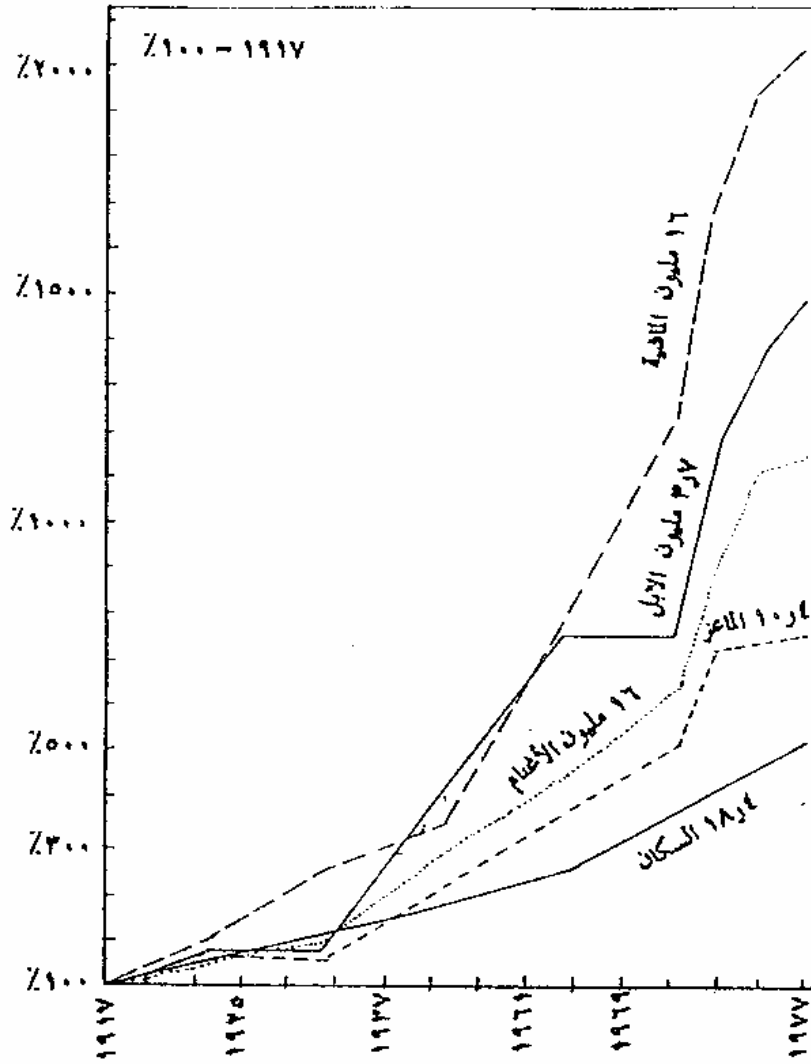
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Olsson K., and Ropp A., dryland degradation in central Sudan, AMBIO, vol. xx no. 5 August, 1991, p. 192.

الزيادة المتسارعة في أعداد كل من: السكان

والغزوة الحيوانية بالسودان ١٧ - ١٩٧٧

شكل رقم (٢)

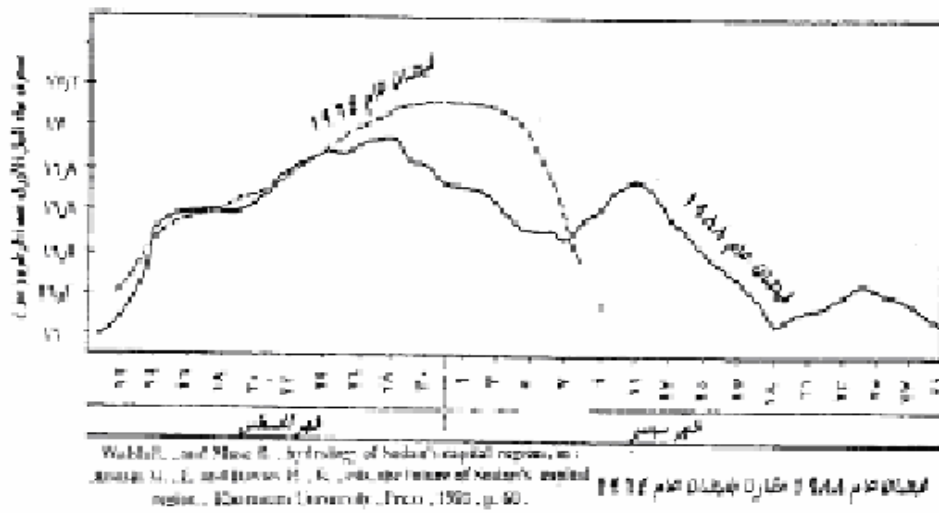
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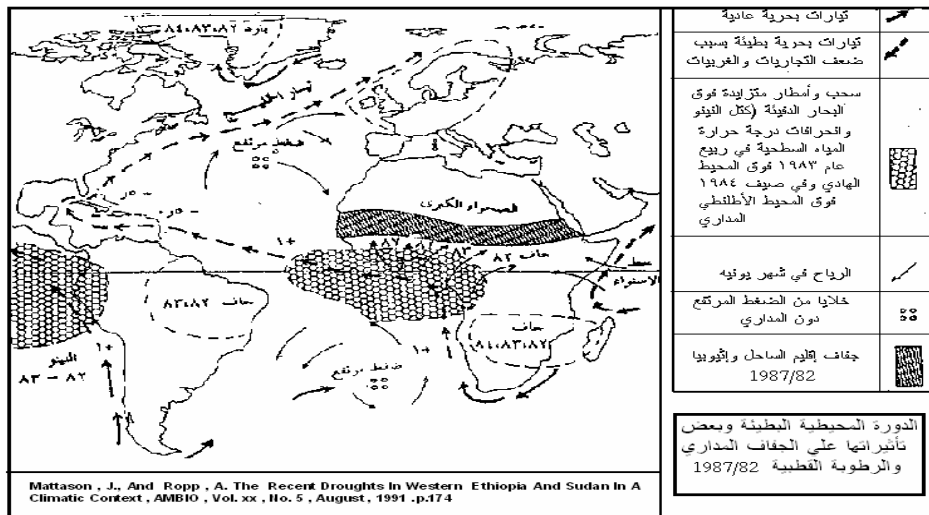
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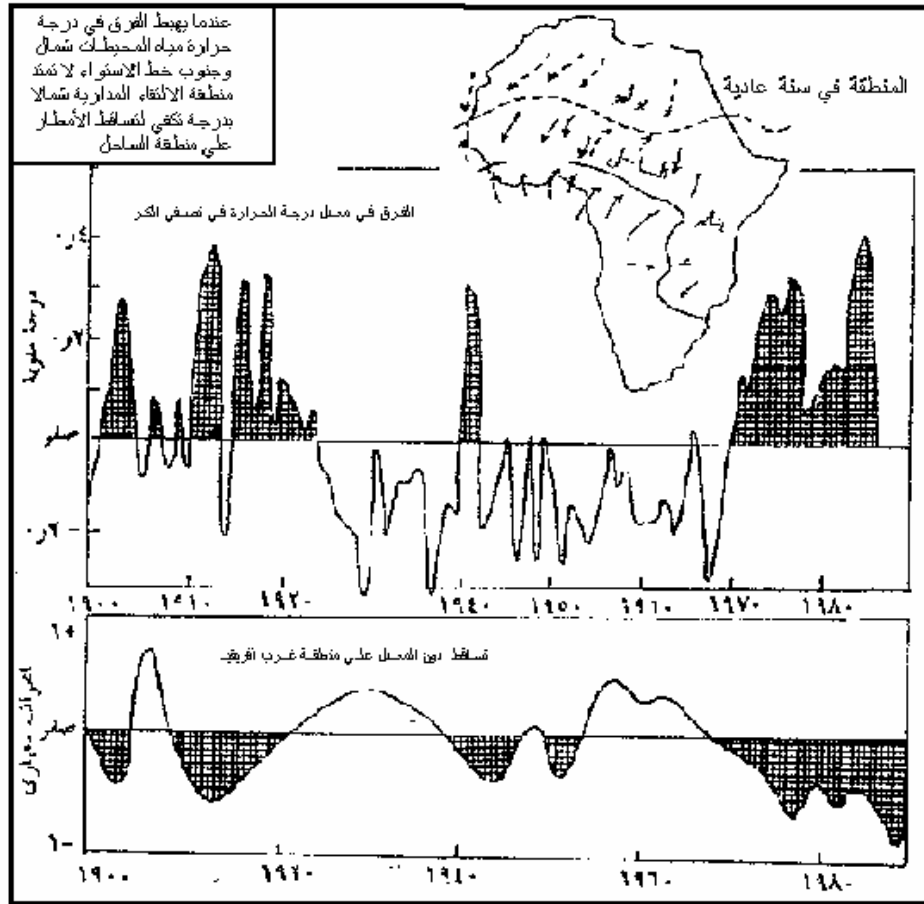
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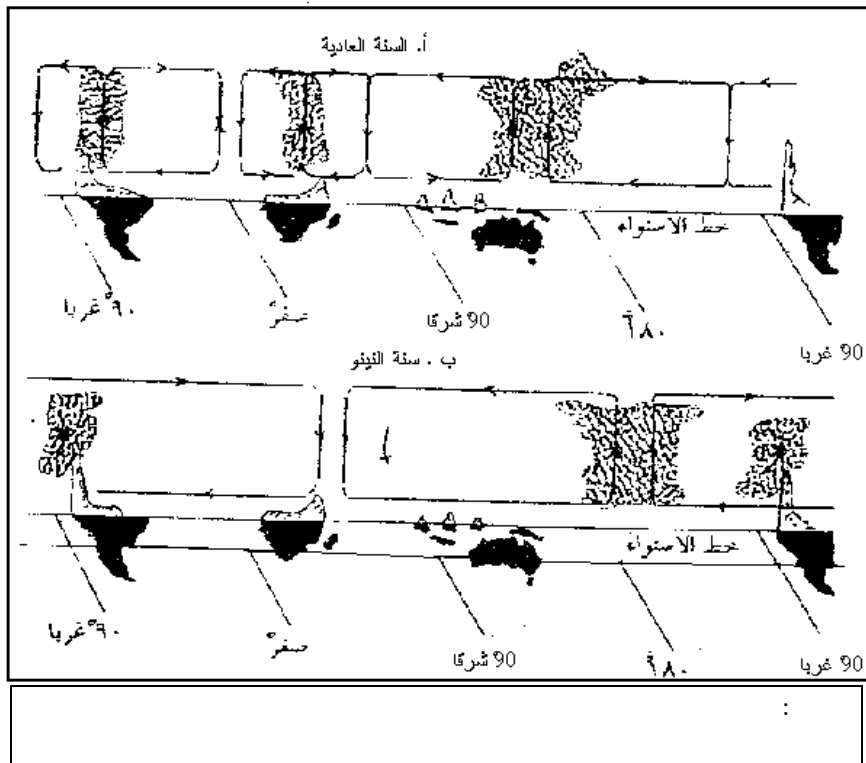
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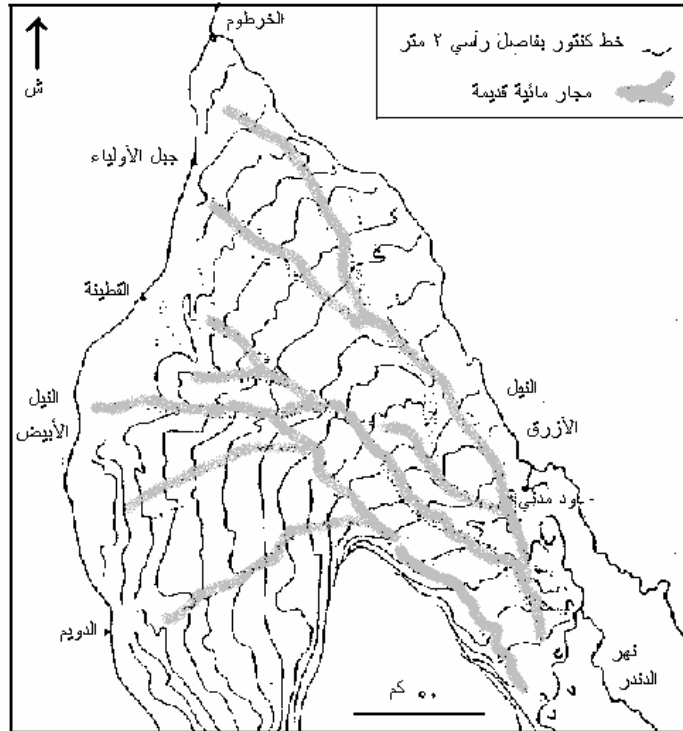
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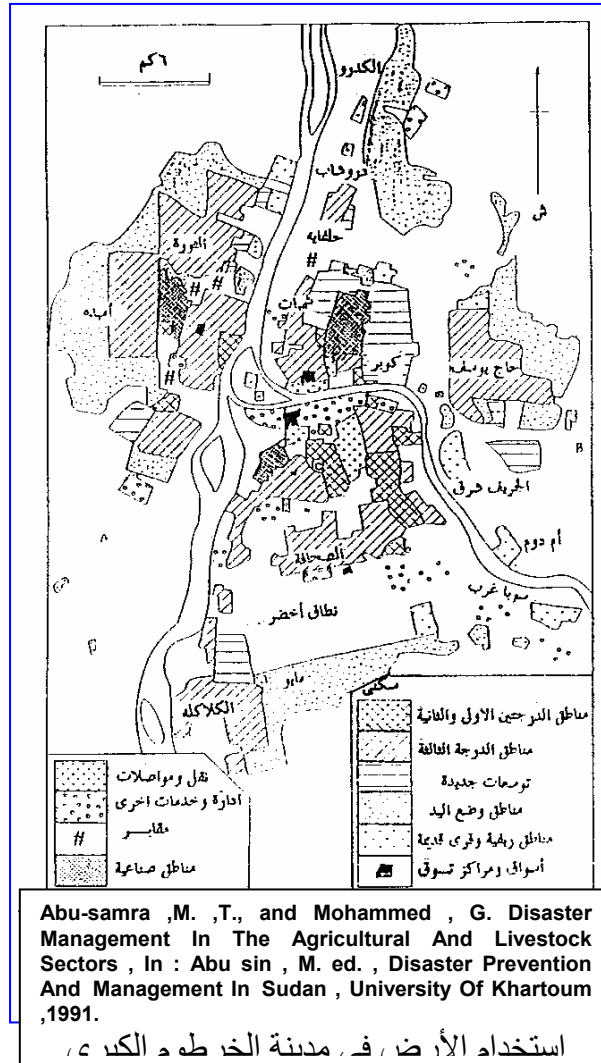


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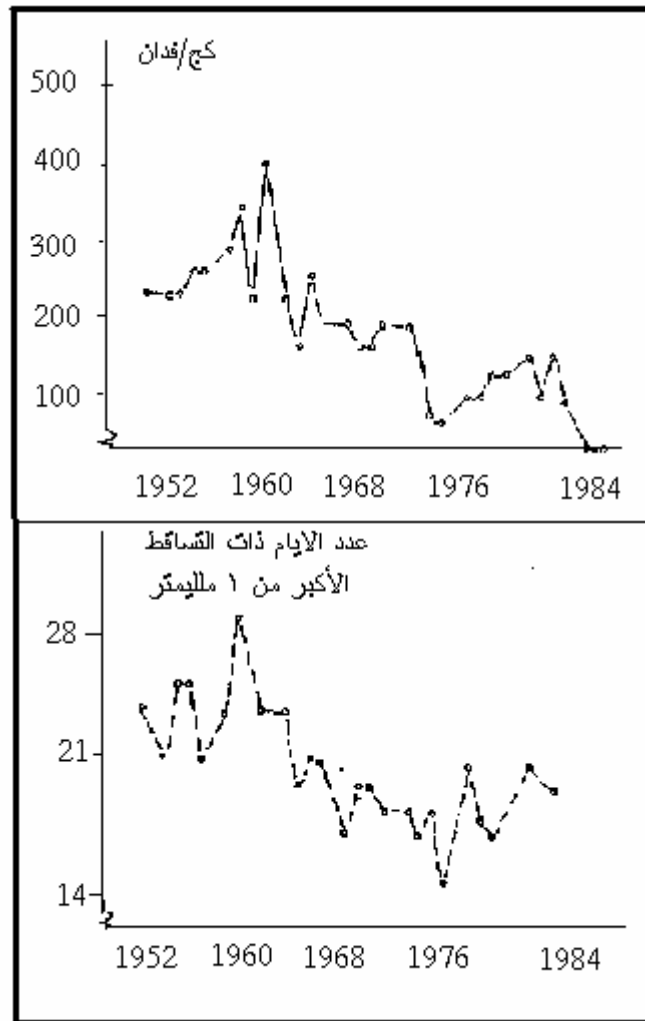
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Olsson ,K., And Ropp, A., Dryland Degradation In Central Sudan, AMBIO , Vol. xx , No. 5 , August , 1991.p194.

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Abu-samra ,M. ,T., and Mohammed , G. Disaster Management In The Agricultural And Livestock Sectors , In : Abusin , M.ed. , Disaster Prevention And Management In Sudan , University Of Khartoum ,1991, P. 126 .

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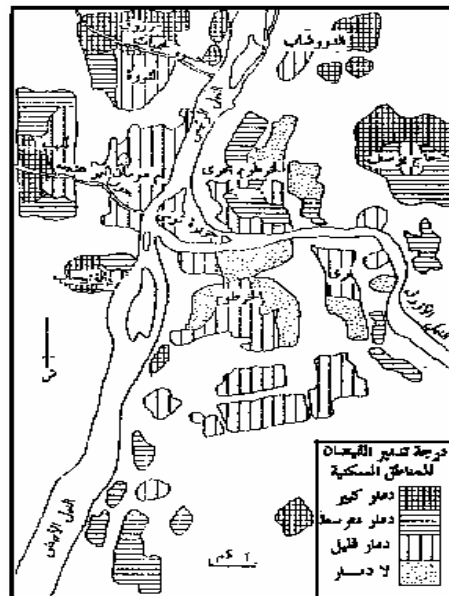
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Abu Sin, M., And Harbi, M. Greater Khartoum Vulnerability to Disaster Hazards, In: Abu Sin, M., and Davies, H. R., Eds. The Future of Sudan’s Capital Region, Khartoum University, Khartoum, 1991, p. 125.

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Abu Sin, M., And Harbi, M. Greater Khartoum Vulnerability to Disaster Hazards, In: Abu Sin, M., and Davies, H. R., Eds. The Future of Sudan’s Capital Region, Khartoum University, Khartoum, 1991, p. 126.

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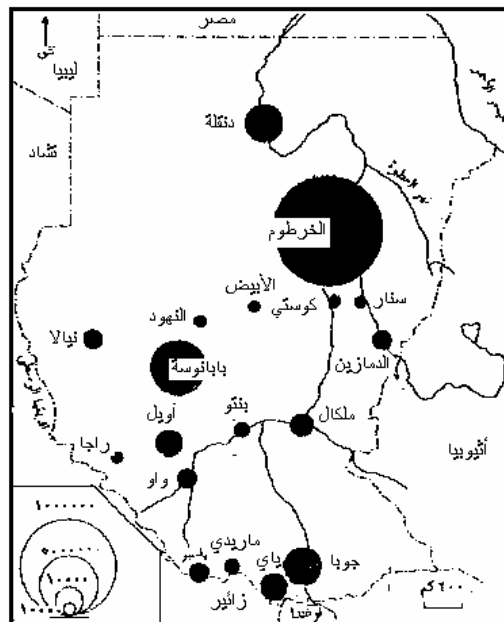
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Gore , P., W., Effects of Disaster on Population Redistribution , In : Abu Sin ,M, Disaster Prevention and Management in Sudan , Khartoum University Press , Khartoum , 1991 , p. 69 .

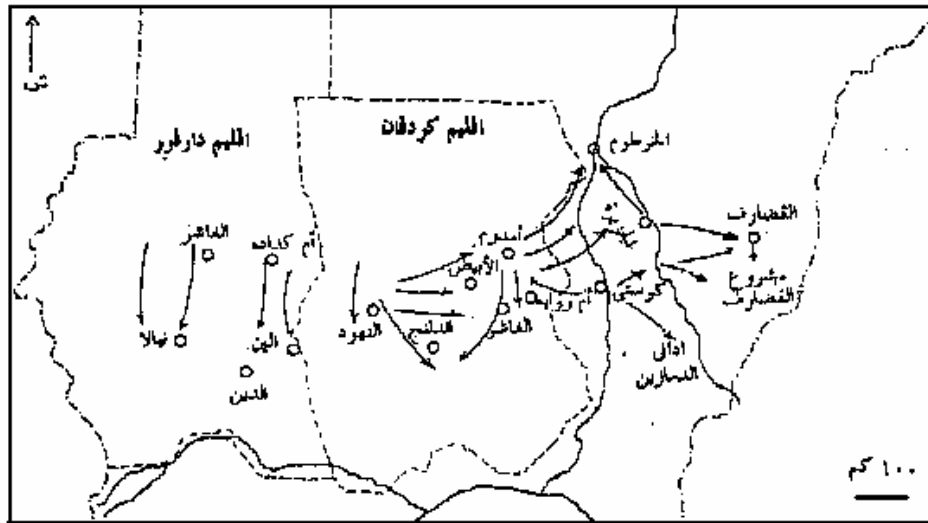


Gore , P., W., Effects of Disaster on Population Redistribution, In : Abu Sin ,M, Disaster Prevention and Management in Sudan , Khartoum University Press , Khartoum , 1991 .

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Gore , P., W., Effects of Disaster on Population Redistribution , In : Abu Sin ,M, Disaster Prevention and Management in Sudan , Khartoum University Press , Khartoum , 1991 , p. 74 .

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 12. Abu Sin, M., And Harbi, M. Greater Khartoum Vulnerability to Disaster Hazards, In: Abu Sin, M., and Davies, H. R., Eds. The Future Of Sudan's Capital Region, Khartoum University, Khartoum, 1991.
 13. Abu Sin ,M.,E . Forms and Types of Disaster and Hazards in The Sudan, In : Abu sin ,M. , E. M. ed. : Disaster Prevention And Management In Sudan , Khartoum University Press , Khartoum ,1991.
 14. Ahmed ,M. ,F. , Agricultural Hazards And Their Control , In : Abu sin ,M. , E. M. ed. : Disaster Prevention And Management In Sudan , Khartoum University Press , Khartoum ,1991.
 15. Ali, H. and Homeida, M. Epidemiology Studies In Rural Communities Settlement At The Peripheries Of Khartoum, Khartoum University Press, Khartoum, Nov. 1988.

16. Ali, H. and Homeida ,M. Flood Disaster Impact On Health And Nutritional Status Of The Population - Khartoum - Sudan - In : Abu sin ,M. , E. M. ed. : Disaster Prevention And Management In Sudan , Khartoum University Press , Khartoum ,1991.
17. Bayoumi, A. The History of Sudan Health Service, Kenya Literature Bureau, Nairobi, 1979.
18. Cutler, P., The Political Economy Of Famine In Ethiopia And The Sudan, AMBIO, Vol. xx, No. 5, August, 1991.
19. Dahl, G. The Beja of Sudan and the Famine of 1984, AMBIO, Vol. xx, No. 5, August, 1991.
20. Davies , H., R., After The Famine In The Sudan , Can The Australian Experience Help , Geographical Journal , Vol. 153 , No. 2 , July 1987 .
21. Davies, H., R., Population Changes In the Capital Region, In: Abu Sin, M., And Davies, H. R., Eds. The Future of Sudan's Capital Region, Khartoum University, Khartoum, 1991.
22. Davies , H., R., And Abu Sin ,M., E., The Heart Of The Sudan , In: Abu Sin ,M., And Davies ,H. R., eds. The Future of Sudan's Capital Region, Khartoum University, Khartoum, 1991.
23. De Waal, A., Famine Mortality...A Case Study Of Darfur , Sudan , 1984 -5 , Population Studies , Vol. 43, No. 1 , March, 1989 .
24. El Agraa, D., and Ahmed, A., Human Settlements in Arab Countries, Khartoum University Press, Khartoum, n.d.
25. El Agraa ,D., et. al. Popular Settlement in Greater Khartoum, Khartoum University Press, Khartoum, 1985.

- 26.El-Battahani ,A.E., State Bureaucracy And Disaster Management In The National Capital Commissionary , In : Abu sin ,M. , E. M. ed. : Disaster Prevention And Management In Sudan , Khartoum University Press , Khartoum ,1991.
- 27.El-Bushra, E. Regional Inequalities in the Sudan, FOCUS, Vol. xxvi, No.1, Sep. 1975.
- 28.El-Bushra, E. And Hijazi ,N. , The Impact Of Greater Khartoum On The Rest Of The Sudan , In: Abu Sin ,M., And Davies ,H. R., eds. The Future Of Sudan's Capital Region, Khartoum University, Khartoum , 1991.
- 29.Ek , R., And Karadawi , A., Implication Of Refugee Flows On Political Stability In The Sudan , AMBIO , Vol. xx , No. 5 , August , 1991 .
- 30.Gore, P., W., Effects of Disaster on Population Redistribution, In: Abu Sin, M, Disaster Prevention and Management in Sudan, Khartoum University Press, Khartoum, 1991.
- 31.Hag Ahmed, E., E., Rural Khartoum Development Systems, In: Abu Sin, M, M. ed., Disaster Prevention and Management in Sudan, Khartoum University Press, Khartoum, 1991.
- 32.Ibrahim M., B., Government And People Response To Natural Hazards In The Sudan , In : Abu Sin ,M, M. ed. Disaster Prevention and Management in Sudan , Khartoum University Press , Khartoum , 1991 .
- 33.Khogali , M., Famine , Desertification , And Vulnerable Population , The Case Of Umm Ruwaba District , Kordofan Region , Sudan , AMBIO , Vol. xx , No. 5 , August , 1991 .

34. Lusigi , T., And Galaser,G., Desertification And Nomadism , Nature And Resources , UNESCO , Vol. xx , No. 1, Paris , 1984 .
35. Malik ,A.,I., Information And Disaster Management In Sudan , In : Abu Sin ,M, E. ed. Disaster Prevention and Management in Sudan , Khartoum University Press , Khartoum , 1991.
36. Mattason , J., And Ropp , A. The Recent Droughts In Western Ethiopia And Sudan In A Climatic Context , AMBIO , Vol. xx , No. 5 , August , 1991 .
37. Mensching, H., And Ibrahim, F., The Problem Of Desertification In And Around Arid Lands, Applied Science And Development, Vol. 10, 1977.
38. Mohammed ,M.,S., Engineering Disaster Awareness And Management In Sudan - A case Study , In : Abu Sin ,M, E. ed. Disaster Prevention and Management in Sudan , Khartoum University Press , Khartoum , 1991.
39. Olsson, K., and Ropp, A., Dryland Degradation in Central Sudan, AMBIO, Vol. xx, No. 5, August, 1991.
40. Shakeshy ,R., Relief ,Rocks And Sediments In Capital Region , In : Abu Sin ,M., And Davies ,H. R., eds. The Future of Sudan's Capital Region, Khartoum University, Khartoum, 1991.
41. Shoukri ,M., Regional Development And Desertification In Arid Zones Around The Sahara , Nature And Resources , UNESCO , Vol. xx , No. 1, Paris , 1984 .
42. Walsh, R. And Muse, B., Hydrology of Sudan's Capital Region, In: Abu Sin, M., and Davies, H. R., Eds. The Future of Sudan's Capital Region, Khartoum University, Khartoum, 1991.

43. Westing, A., Environmental Security And Its Relations To Ethiopia And Sudan, AMBIO, Vol. xx, No. 5, August, 1991.
44. WMO, Climate , Drought , And Desertification , Nature And Resources , UNESCO , Vol. xx , No. 1, Paris , 1984